

POWER MOSFET

20V MOSFET series

N-Channel, Enhancement type

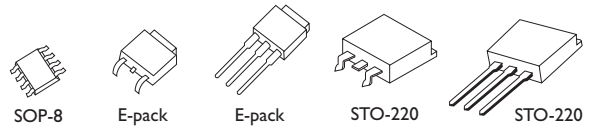


Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} V _{GS} =2.5V (max)	C _{ISS} (typ)	C _{RSS} (typ)	t _{ON} (typ)	t _{OFF} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
F7H2N	150	20	±12	7	2	0.029	1450	170	230	215	SOP-8	92
F5H2ND				5	2	0.047	700	95	100	170		

D: Dual, without D is Single

30V MOSFET series

N-Channel, P-Channel, Enhancement type



Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline				
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} V _{GS} =4V (max)	C _{ISS} (typ)	C _{RSS} (typ)	t _{ON} (typ)	t _{OFF} (typ)	Package	Figure			
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]					
2SK2816	150	30	±20	5	10	0.16	180	40	30	65	E-pack	78-4 (SMD 77-4)			
2SK2817				10	15	0.1	300	60	60	100					
2SK2818				15	20	0.07	440	90	95	150					
2SK2819				20	25	0.04	790	150	125	230					
2SK2820				45	55	0.02	1720	330	305	465					
2SK2821				70	70	0.01	3800	710	400	950			STO-220	76-2 (SMD 74-3)	
2SJ487	150	-30	±20	-3	10	0.5	230	30	50	55	E-pack	78-4 (SMD 77-4)			
2SJ488				-5	15	0.3	320	40	60	85					
2SJ489				-7	20	0.21	480	50	85	130					
2SJ490				-10	25	0.12	870	90	120	195					
2SJ491				-20	55	0.06	1900	210	245	385			STO-220	*1	
F4H3N	150	30	±20	4	2	0.1	300	60	40	95	SOP-8	92			
F5H3N				5	2	0.07	440	90	50	140					
F8H3N				8	2	0.04	730	150	60	220					
F10H3N				10	2	0.023	1400	340	130	450					
F2H3ND				2.5	2	0.25	130	30	25	47					
F3H3ND				3	2	0.16	180	40	30	65					
F4H3ND				4	2	0.1	300	60	40	95					
F5H3ND				5	2	0.07	440	90	50	140					
F3H3P				150	-30	±20	-2.5	2	0.3	320			40	45	90
F4H3P							-3.5	2	0.21	480			50	55	120
F5H3P							-4.5	2	0.12	760			90	60	190
F7H3P							-6.5	2	0.06	1550			210	160	550
F3H3PD	-2.5	2	0.3				320	40	45	90					
F4H3PD	-3.5	2	0.21				480	50	55	120					
F3H3C	150	30	±20				2.5	2	0.25	130	30	25	47		
		-30					-2.5		0.3	320	40	45	90		
F4H3C	150	30	±20	4	2	0.1	300	60	40	95					
		-30		-3.5		0.21	480	50	55	120					

D: Dual; C: Complement; without D or C is Single

*1: Leaded package - Fig. 76-2; SMD package - Fig. 74-3

40V MOSFET series

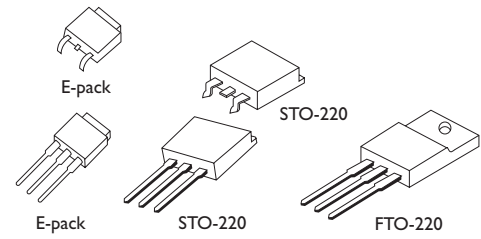
N-Channel, Enhancement type



Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} V _{GS} =4V (max)	C _{ISS} (typ)	C _{RSS} (typ)	t _{ON} (typ)	t _{OFF} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
F9H4N	150	40	±20	9	2	0.03	1500	220	110	380	SOP-8	92

D: Dual, without D is Single

POWER MOSFET

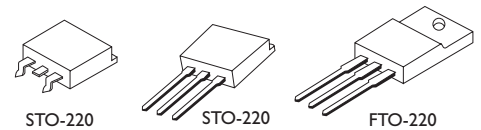


60V MOSFET series

N-Channel, P-Channel, Enhancement type

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS (ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
2SK2279	150	60	±20	2	15	0.35	190	30	30	95	E-pack	78-4 (SMD 77-4)
2280				5	20	0.16	420	80	50	155		
2281				10	25	0.1	700	120	70	230		
2282					40							
2283					30							
2284				15	50	0.07	960	160	90	280		
2285					35							
2286				20	60	0.045	1500	280	110	430		
2287					40							
2288				30	70	0.03	2300	400	150	630		
2289					50							
2290				45	75	0.02	3800	700	240	985		
2291					55							
2SJ365				150	-60	±20	-2	20	0.45	400		
366	-5	25	0.25				630	150	55	260		
367		40										
368		30										
369	-10	50	0.16				900	210	75	300		
370		35										
371	-15	60	0.1				1350	340	110	480		
372		40										
373	-20	70	0.07				2050	520	160	700		
374		50										
375	-30	75	0.045				3500	800	250	1100		
376		55										

*I: Leaded package - Fig. 76-2; SMD package - Fig. 74-3.

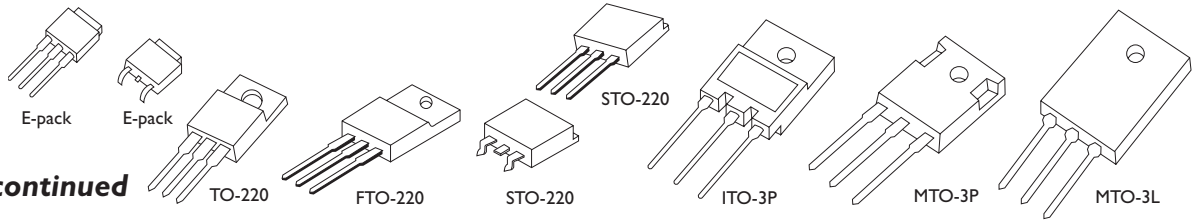


VZ series

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline			
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS (ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure		
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]				
2SK2489	150	180	±30	10	45	0.25	720	80	50	140	FTO-220	84-4		
2490					40									
2491				20	70	0.13	1600	190	95	300				
2492		10					40	0.30	840	80			50	140
2559									20	60			0.18	1800
2560		200												

*I: Leaded package - Fig. 76-2; SMD package - Fig. 74-3

POWER MOSFET



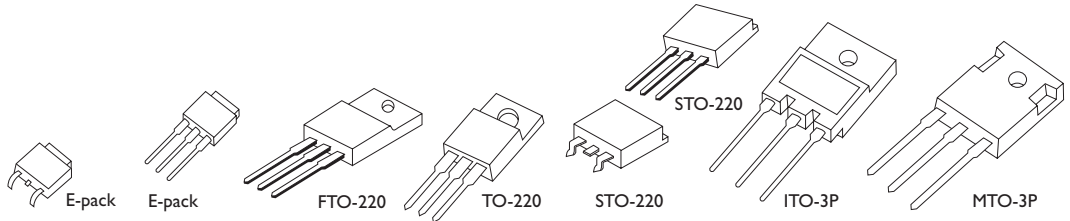
VX-II series – continued

N-Channel, Enhancement type

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
2SK2191	150	500	±30	12	60	0.7	1200	90	90	190	STO-220	*1
2192					80						MTO-3P	86-3
2193				50	0.45	1900	135	110	270	ITO-3P	88-4	
2475										FTO-220	84-4	
2194				15	60	0.35	2400	170	135	340	MTO-3P	86-3
2195											ITO-3P	88-4
2196				20	125	0.23	3700	230	220	500	MTO-3P	86-3
2197											ITO-3P	88-4
2198				30	220	0.23	3700	230	220	500	MTO-3L	89-2
3005				150	600	±30	2	20	4.4	250	20	20
2563	30	FTO-220	84-4									
★ 3006	4	50	2.2				540	40	28	110	TO-220	80-4
★ 3007											STO-220	*1
2564	8	50	1.2				1130	85	55	195	FTO-220	84-4
3009											STO-220	*1
★ 3011	16	125	0.6				2300	180	130	260	MTO-3P	86-3
3012											MTO-3P	86-3
3013	70	0.6	2300				180	130	260	ITO-3P	88-4	

*1 : Leaded package - Fig. 76-2; SMD package - Fig. 74-3 *2 : Leaded package - Fig. 78-4; SMD package - Fig. 77-4

★ : Under development



HVX-II series

N-Channel, Enhancement type

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
2SK2333	150	900	±30	6	50	2.0	1250	250	70	160	FTO-220	84-4
2663					10						14.0	230
2664				3	50	4.7	630	16	40	140	TO-220	80-4
2665											50	STO-220
2666				30	65	2.8	1140	23	55	210	FTO-220	84-4
2667											65	MTO-3P
2668				40	100	2.0	1450	37	95	330	ITO-3P	88-4
2669											40	ITO-3P
2670				5	60	2.0	1450	37	95	330	TO-220	80-4
2671											60	STO-220
2672				40	80	1.4	2150	50	140	440	FTO-220	84-4
2673											80	MTO-3P
2674				50	120	1.4	2150	50	140	440	ITO-3P	88-4
2675											50	ITO-3P
2676				7	120	1.4	2150	50	140	440	MTO-3P	86-3
2677											120	MTO-3P
2677				65	1.4	2150	50	140	440	ITO-3P	88-4	

*1 : Leaded package - Fig. 78-4; SMD package - Fig. 77-4 *2 : Leaded package - Fig. 76-2; SMD package - Fig. 74-3